

## Refine Search

### Search Results -

Terms	Documents
L12 and L13	6

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L14





### Search History

DATE: Wednesday, October 20, 2004    [Printable Copy](#)    [Create Case](#)

#### Set Name Query

side by side

#### Hit Count Set Name

result set

*DB=TDBD; PLUR=YES; OP=OR*

<u>L14</u>	l12 and l13	6	<u>L14</u>
<u>L13</u>	(antenna\$1 and scan\$4) or aesa\$1	17	<u>L13</u>
<u>L12</u>	radar\$1	72	<u>L12</u>

*DB=USOC; PLUR=YES; OP=OR*

<u>L11</u>	l10 not l5	144	<u>L11</u>
<u>L10</u>	l9 and steer\$3	144	<u>L10</u>
<u>L9</u>	l8 and beam\$1	1578	<u>L9</u>
<u>L8</u>	l6 and l7	2103	<u>L8</u>
<u>L7</u>	(antenna\$1 and scan\$4) or aesa\$1	6104	<u>L7</u>
<u>L6</u>	radar\$1	10692	<u>L6</u>

*DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR*

<u>L5</u>	l4 and steer\$3	113	<u>L5</u>
<u>L4</u>	l3 and beam\$1	900	<u>L4</u>
<u>L3</u>	l1 and l2	1578	<u>L3</u>
<u>L2</u>	(antenna\$1 and scan\$4).ti,ab. or aesa\$1.ti,ab.	5656	<u>L2</u>
<u>L1</u>	radar\$1.ti,ab.	42794	<u>L1</u>

Best Available Copy

END OF SEARCH HISTORY

## Gregory, Bernarr

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**From:** PLUS  
**Sent:** Wednesday, October 20, 2004 11:15 AM  
**To:** Gregory, Bernarr  
**Subject:** PLUS Results for 10655554

Here are the PLUS search results for 10655554.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to [PLUS@uspto.gov](mailto:PLUS@uspto.gov).



10655554\_QUAL.txt



10655554\_LIST.txt



10655554\_WEST.txt



10655554\_EAST.txt



10655554.east



10655554\_CLS.txt



10655554\_CLSTITLES.1  
xt



10655554\_WDS.txt

10655554\_QUAL

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10655554\_QUAL

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10655554\_QUAL

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10655554\_QUAL

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4562403 53



54

PLUS Search Results for S/N 10655554, Searched October 20, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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## 10655554\_LIST

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10655554\_EAST

4538148

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4562403) .pn.



10655554\_CLS

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10655554 on October 20, 2004

Original Classifications

5	342/91
3	340/904
3	342/43
3	343/700MS
3	455/327
2	324/76.82
2	324/96
2	330/286
2	333/165
2	333/17.2
2	340/932.2
2	342/157
2	342/174
2	342/201
2	342/37
2	342/373
2	342/417
2	342/70
2	343/701
2	343/909

Cross-Reference Classifications

7	342/194
5	340/435
4	180/169
4	340/901
4	342/201
4	343/700MS
3	235/411
3	333/247
3	340/436
3	340/903
3	342/162
3	342/368
3	343/767
3	455/330
2	89/1.56
2	89/1.819
2	250/349
2	257/775
2	327/195
2	330/297
2	333/117

10655554\_CLS

2 333/161  
2 340/539.1  
2 341/120  
2 342/112  
2 342/125  
2 342/128  
2 342/149  
2 342/153  
2 342/154  
2 342/160  
2 342/192  
2 342/193  
2 342/195  
2 342/196  
2 342/417  
2 342/444  
2 342/80  
2 342/91  
2 343/742  
2 343/846  
2 343/872  
2 349/139  
2 367/909  
2 385/14  
2 434/2  
2 455/78  
2 708/816

Combined Classifications

7 342/194  
7 342/91  
7 343/700MS  
6 340/435  
6 342/201  
4 180/169  
4 340/901  
4 342/417  
4 342/43  
3 235/411  
3 324/96  
3 333/247  
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3 340/539.1  
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10655554\_CLS

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2 342/44

10655554\_CLS

2 342/444  
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2 343/872  
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2 349/139  
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2 367/909  
2 385/14  
2 434/2  
2 455/78  
2 708/816

10655554\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10655554 on October 20, 2004

7 342/194 (0 OR, 7 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/194 .Complex signal (in phase and quadrature)

7 342/91 (5 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
 342/89 .Receiver  
 342/91 ..Gain or threshold

7 343/700MS (3 OR, 4 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/700MS .Microstrip

6 340/435 (1 OR, 5 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS  
 340/435 .Of relative distance from an obstacle

6 342/201 (2 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/200 .For frequency modulation  
 342/201 ..Combined with pulse modulation

4 180/169 (0 OR, 4 XR)  
 Class 180 : MOTOR VEHICLES  
 180/167 WITH MEANS FOR CONTROLLING OPERATION RESPONSIV

E  
 TO ELECTROMAGNETIC RADIATION, MAGNETIC FOR  
 CE, OR SOUND  
 WAVES RECEIVED FROM SOURCE, OR REFLECTED F  
 ROM OBJECT OR  
 SURFACE, LOCATED APART FROM VEHICLE  
 180/169 .Radiation, force, or waves reflected from  
 external object or surface

4 340/901 (0 OR, 4 XR)

10655554\_CLSTITLES

Class 340 : COMMUNICATIONS: ELECTRICAL  
340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM

4 342/417 (2 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/385 .Beacon or receiver  
342/417 ..Direction-finding receiver only

4 342/43 (3 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/42 RADAR TRANSPONDER SYSTEM  
342/43 .Combined with primary radar system

3 235/411 (0 OR, 3 XR)  
Class 235 : REGISTERS  
235/400 ORDNANCE OR WEAPON SYSTEMS COMPUTER  
235/411 .With target tracking means

3 324/96 (2 OR, 1 XR)  
Class 324 : ELECTRICITY: MEASURING AND TESTING  
324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PE

R

SE

324/96 .Using radiant energy

3 333/247 (0 OR, 3 XR)  
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
333/245 LONG LINE ELEMENTS AND COMPONENTS  
333/246 .Strip type  
333/247 ..Semiconductor mounts

3 340/436 (0 OR, 3 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/425.5 LAND VEHICLE ALARMS OR INDICATORS  
340/436 .Of collision or contact with external object

3 340/539.1 (1 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/531 .With particular coupling link  
340/539.1 ..Radio

10655554\_CLSTITLES

3 340/903 (0 OR, 3 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM  
 340/902 .Transmitter in another vehicle (e.g.,  
 emergency vehicle)  
 340/903 ..Relative distance between vehicles (e.g.,  
 collision alert)

3 340/904 (3 OR, 0 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

ALARM  
 340/904 .Transmitter in one vehicle only

3 342/128 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/128 .With frequency modulation

3 342/153 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/147 DETERMINING DIRECTION  
 342/149 .Monopulse  
 342/153 ..With particular antenna or waveguide

3 342/157 (2 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/147 DETERMINING DIRECTION  
 342/157 .With frequency or phase steering

3 342/162 (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/159 CLUTTER ELIMINATION  
 342/160 .MTI (Moving target indicator)  
 342/162 ..Digital

3 342/195 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/195 .Digital processing

10655554\_CLSTITLES

- 3 342/196 (1 OR, 2 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/175 WITH PARTICULAR CIRCUIT
  - 342/195 .Digital processing
  - 342/196 ..Fast fourier transform (FFT)
- 3 342/368 (0 OR, 3 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/350 DIRECTIVE
  - 342/368 .Including a steerable array
- 3 342/70 (2 OR, 1 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/61 RETURN SIGNAL CONTROLS EXTERNAL DEVICE
  - 342/70 .Radar mounted on and controls land vehicle
- 3 343/767 (0 OR, 3 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/767 .Slot type
- 3 343/846 (1 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/846 .With grounding structure (including counterpoises)
- 3 455/327 (3 OR, 0 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/313 .Frequency modifying or conversion
  - 455/323 ..Particular frequency conversion structure or circuitry
  - 455/325 ...Including distributed electrical parameter structure
  - 455/326 ....With balanced mixer
  - 455/327 .....Stripline
- 3 455/330 (0 OR, 3 XR)
  - Class 455 : TELECOMMUNICATIONS
  - 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
  - 455/313 .Frequency modifying or conversion



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- 455/323 ..Particular frequency conversion structure or circuitry
- 455/325 ...Including distributed electrical parameter structure
- 455/330 ....With nonlinear impedance (e.g., diode)
  
- 2 89/1.56 (0 OR, 2 XR)
  - Class 089 : ORDNANCE
  - 89/1.51 BOMB, FLARE AND SIGNAL DROPPING
  - 89/1.56 .Electrical and radio releases and sighting
  
- 2 89/1.819 (0 OR, 2 XR)
  - Class 089 : ORDNANCE
  - 89/1.8 ROCKET LAUNCHING
  - 89/1.819 .Having guide means
  
- 2 250/349 (0 OR, 2 XR)
  - Class 250 : RADIANT ENERGY
  - 250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC SIGNALLING
  - 250/338.1 .Infrared responsive
  - 250/349 ..Plural signalling means
  
- 2 257/775 (0 OR, 2 XR)
  - Class 257 : ACTIVE SOLID-STATE DEVICES
  - 257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
  - 257/773 .Of specified configuration
  - 257/775 ..Varying width or thickness of conductor
  
- 2 318/586 (1 OR, 1 XR)
  - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
  - 318/560 POSITIONAL SERVO SYSTEMS (E.G., SERVOMECHANISMS)
  - 318/580 .Vehicular guidance systems with single axis control
  - 318/586 ..Yaw control
  
- 2 324/326 (1 OR, 1 XR)
  - Class 324 : ELECTRICITY: MEASURING AND TESTING
  - 324/323 OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
  - 324/326 .For small object detection or location
  
- 2 324/76.82 (2 OR, 0 XR)
  - Class 324 : ELECTRICITY: MEASURING AND TESTING
  - 324/76.11 MEASURING, TESTING, OR SENSING ELECTRICITY, PE
  
- R SE
  - 324/76.77 .Phase comparison (e.g., between cyclic pulse

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voltage and sinusoidal current, etc.)

324/76.82 ..Digital output

2 327/195 (0 OR, 2 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR  
DEVICES, CIRCUITS, AND SYSTEMS

327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING

327/185 .Particular stable state circuit (e.g.,  
tristable, etc.)

327/195 ..Negative resistance diode having "N"-shape  
characteristic on I-V plot (e.g., tunnel di

ode, backward

diode, etc.)

2 330/286 (2 OR, 0 XR)

Class 330 : AMPLIFIERS

330/250 WITH SEMICONDUCTOR AMPLIFYING DEVICE (E.G.,  
TRANSISTOR)

330/286 .Including distributed parameter-type coupling

2 330/297 (0 OR, 2 XR)

Class 330 : AMPLIFIERS

330/250 WITH SEMICONDUCTOR AMPLIFYING DEVICE (E.G.,  
TRANSISTOR)

330/297 .Including particular power supply circuitry

2 333/1.1 (1 OR, 1 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
PLURAL CHANNEL SYSTEMS

333/1.1 .Nonreciprocal gyromagnetic type (e.g.,  
circulators)

2 333/117 (0 OR, 2 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
PLURAL CHANNEL SYSTEMS

333/100 .Having branched circuits

333/117 ..Including hybrid-type network

2 333/161 (0 OR, 2 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
COUPLING NETWORKS

333/156 .Delay lines including long line elements

333/161 ..Planar line structure (e.g., stripline)

2 333/164 (1 OR, 1 XR)

Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
COUPLING NETWORKS

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333/156 .Delay lines including long line elements  
 333/164 ..Control of delay with semiconductive means

2 333/165 (2 OR, 0 XR)  
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
 333/24R COUPLING NETWORKS  
 333/165 .Frequency or time domain filters and delay  
 lines utilizing charge transfer devices

2 333/17.2 (2 OR, 0 XR)  
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS .  
 333/17.1 AUTOMATICALLY CONTROLLED SYSTEMS  
 333/17.2 .Limiting of amplitude

2 333/246 (1 OR, 1 XR)  
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
 333/245 LONG LINE ELEMENTS AND COMPONENTS  
 333/246 .Strip type

2 340/932.2 (2 OR, 0 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/932.2 VEHICLE PARKING INDICATORS

2 341/120 (0 OR, 2 XR)  
 Class 341 : CODED DATA GENERATION OR CONVERSION  
 341/120 CONVERTER CALIBRATION OR TESTING

2 342/104 (1 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/104 DETERMINING VELOCITY

2 342/112 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/104 DETERMINING VELOCITY  
 342/109 .Combined with determining distance  
 342/112 ..With plural frequencies transmission

2 342/125 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/125 .With remote cooperating station

2 342/147 (1 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES

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DETERMINING DIRECTION

342/147

2 342/149 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/147 DETERMINING DIRECTION  
342/149 .Monopulse

2 342/154 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/147 DETERMINING DIRECTION  
342/149 .Monopulse  
342/154 ..Combined with beam steering

2 342/159 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/159 CLUTTER ELIMINATION

2 342/16 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/13 RADAR EW (ELECTRONIC WARFARE)  
342/16 .ECCM (Electronic counter-countermeasures,  
i.e., antijamming)

2 342/160 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/159 CLUTTER ELIMINATION  
342/160 .MTI (Moving target indicator)

2 342/165 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/165 TESTING OR CALIBRATING OF RADAR SYSTEM

2 342/174 (2 OR, 0 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/165 TESTING OR CALIBRATING OF RADAR SYSTEM  
342/173 .By monitoring  
342/174 ..Calibrating

2 342/175 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

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342/175 WITH PARTICULAR CIRCUIT

2 342/192 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/175 WITH PARTICULAR CIRCUIT

342/192 .Spectrum analysis

2 342/193 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/175 WITH PARTICULAR CIRCUIT

342/192 .Spectrum analysis

342/193 ..Harmonic

2 342/37 (2 OR, 0 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/36 AIR TRAFFIC CONTROL

342/37 .Secondary Surveillance Radar (SSR) or Air  
Traffic Control Radar Beacon System (ATCRBS

)

2 342/373 (2 OR, 0 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/368 .Including a steerable array

342/373 ..With a matrix

2 342/379 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/378 .Utilizing correlation techniques

342/379 ..Side lobe elimination

2 342/381 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/378 .Utilizing correlation techniques

342/379 ..Side lobe elimination

342/381 ...Difference of each antenna channel signal

2 342/4 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

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342/1                    RADIO WAVE ABSORBER  
342/4                    .With particular geometric configuration

2   342/44                (1 OR, 1 XR)  
Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
   AND DEVICES  
342/42                    RADAR TRANSPONDER SYSTEM  
342/44                    .Unique identity

2   342/444                (0 OR, 2 XR)  
Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
   AND DEVICES  
342/350                    DIRECTIVE  
342/385                    .Beacon or receiver  
342/417                    ..Direction-finding receiver only  
342/444                    ...Having plural receivers

2   342/6                    (1 OR, 1 XR)  
Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
   AND DEVICES  
342/5                    RADAR REFLECTOR  
342/6                    .With modulation

2   342/80                    (0 OR, 2 XR)  
Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
   AND DEVICES  
342/73                    RETURN SIGNAL CONTROLS RADAR SYSTEM  
342/74                    .Antenna control  
342/75                    ..Physical orientation  
342/80                    ...Monopulse

2   343/701                    (2 OR, 0 XR)  
Class   343 :   COMMUNICATIONS:   RADIO WAVE ANTENNAS  
343/700R                    ANTENNAS  
343/701                    .Having electric space discharge device

2   343/708                    (1 OR, 1 XR)  
Class   343 :   COMMUNICATIONS:   RADIO WAVE ANTENNAS  
343/700R                    ANTENNAS  
343/705                    .With aircraft  
343/708                    ..Aircraft part of active antenna or vice vers

a

2   343/742                    (0 OR, 2 XR)  
Class   343 :   COMMUNICATIONS:   RADIO WAVE ANTENNAS  
343/700R                    ANTENNAS  
343/741                    .High frequency type loops

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343/742 ..Plural

2 343/754 (1 OR, 1 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/753 .With spaced or external radio wave refractor  
(e.g., lens)

343/754 ..With scanning, sweeping, or orienting

2 343/872 (0 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/872 .With housing or protective covering

2 343/909 (2 OR, 0 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/907 .Antenna components

343/909 ..Refracting means and radio wave energy  
filters (e.g., lenses and polarizers)

2 349/139 (0 OR, 2 XR)

Class 349 : LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS

349/56 PARTICULAR STRUCTURE

349/84 .Having significant detail of cell structure  
only349/139 ..Electrode or bus detail (i.e., excluding  
supplemental capacitor and transistor elect

rodes)

2 349/202 (1 OR, 1 XR)

Class 349 : LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS

349/193 LIQUID CRYSTAL OPTICAL ELEMENT

349/201 .Liquid crystal diffraction element

349/202 ..For beam steering

2 367/909 (0 OR, 2 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES

367/909 COLLISION AVOIDANCE

2 385/14 (0 OR, 2 XR)

Class 385 : OPTICAL WAVEGUIDES

385/14 INTEGRATED OPTICAL CIRCUIT

2 434/2 (0 OR, 2 XR)

Class 434 : EDUCATION AND DEMONSTRATION

434/1 DETECTION OR RANGE DETERMINATION OF DISTANT

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OBJECT BY APPARATUS USING SENSOR OF ELECTR

OMAGNETIC OR

SOUND ENERGY

434/2

.Radar

2 455/78 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

455/78

.With transmitter-receiver switching or  
interaction prevention

2 708/816 (0 OR, 2 XR)

Class 708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING  
AND CALCULATING

708/800 ELECTRICAL ANALOG CALCULATING COMPUTER

708/801 .Particular function performed

708/813 ..Correlation or convolution

708/816 ...Optical



ability 1  
 able 1  
 about 10  
 above 2  
 abstract 1  
 accompanying 1  
 according 27  
 accordingly 1  
 accuracy 6  
 accurate 1  
 achieve 2  
 active 2  
 adiameter 1  
 adjacent 1  
 advantage 1  
 advantages 1  
 aesa 29  
 aesas 8  
 agard 1  
 ago 1  
 airborne 1  
 aitay 1  
 al 2  
 aliows 1  
 all 8  
 alla 2  
 along 1  
 amp 3  
 amplifier 2  
 amplifying 3  
 amplitude 2  
 an 31  
 analysis 1  
 and 181  
 angle 5  
 angles 3  
 angular 26  
 ann 2  
 another 6  
 antenna 21  
 antennas 2  
 antennw 1  
 any 12  
 ap 3  
 applebua 1  
 application 3  
 applications 2  
 approaches 1

appropriately 1  
april 1  
arborl 1  
are 10  
arranged 1  
array 19  
arrays 7  
art 1  
as 23  
asic 1  
assembled 1  
at 14  
august 2  
aviation 1  
azimuth 13  
back 1  
background 1  
balance 1  
banchmark 1  
band 30  
bandwidth 3  
bank 1  
base 1  
baseband 1  
based 3  
be 13  
beam 34  
beamforming 1  
beams 12  
beamsteering 2  
because 3  
becomes 1  
been 1  
before 1  
behind 4  
being 3  
bend 1  
better 7  
between 9  
bf 1  
bi 1  
bistatic 1  
block 25  
blocks 1  
both 1  
bottom 1  
brief 1  
brit 3

but 6  
 by 24  
 caldwell 2  
 can 12  
 captured 2  
 carrier 5  
 carry 1  
 carrying 1  
 case 1  
 cases 1  
 center 7  
 ch 1  
 change 1  
 characteristic 3  
 chip 3  
 chirp 3  
 ci 3  
 circle 2  
 circuit 4  
 circuits 1  
 circular 2  
 circulator 2  
 circulators 4  
 cited 1  
 citizen 1  
 civil 1  
 clatter 2  
 cluster 1  
 clutter 1  
 cm 2  
 coef 9  
 cohneted 1  
 collect 2  
 collected 1  
 column 11  
 columns 2  
 combine 1  
 combined 1  
 combiner 7  
 combiners 1  
 come 2  
 comes 2  
 coming 7  
 commercial 1  
 communication 1  
 compared 1  
 comparison 5  
 complete 1

complicated 1  
composed 1  
comprises 1  
comprising 6  
comptising 1  
computer 1  
conceivable 1  
concerned 1  
concrete 1  
conf 4  
configuration 1  
conformal 7  
conical 1  
connected 55  
connqcted 1  
consecutive 2  
consequence 2  
consider 3  
considered 1  
considering 1  
consists 4  
constant 3  
construed 1  
continuing 1  
continuous 2  
continuously 2  
control 1  
controlled 4  
conventional 9  
convey 1  
coordinates 1  
corresponds 1  
cos 2  
cost 3  
costm 1  
cottony 1  
could 2  
couple 6  
coupled 2  
coupler 10  
couplers 2  
coverage 2  
creates 2  
creating 3  
cross 8  
data 5  
davies 5  
december 2

decibels 2  
 decode 1  
 defense 1  
 degradation 1  
 degrees 3  
 deita 2  
 delay 7  
 delivered 1  
 delta 6  
 deltaf 6  
 dependable 2  
 depending 2  
 depends 2  
 depicts 2  
 depqndant 1  
 described 4  
 describing 1  
 description 3  
 design 1  
 designat 1  
 designated 4  
 designed 1  
 designs 1  
 detailed 1  
 detecting 3  
 determine 1  
 dev 1  
 developing 1  
 device 1  
 devices 3  
 diagram 7  
 diameter 3  
 difference 5  
 differences 2  
 different 16  
 difficult 1  
 digital 1  
 digitally 1  
 direction 10  
 directional 13  
 directions 1  
 diredivity 1  
 disadvantage 1  
 disciosed 1  
 disclosure 2  
 discovery 1  
 discriminate 1  
 dispersively 2

displaced 4  
 displacement 3  
 distinguish 2  
 distributed 1  
 diver 2  
 divider 23  
 dividers 8  
 divides 2  
 do 1  
 does 1  
 dollars 1  
 double 1  
 down 1  
 drawing 2  
 drawings 2  
 duration 14  
 during 4  
 each 45  
 easily 1  
 echo 5  
 edgar 1  
 effect 1  
 effectiveness 1  
 ei 1  
 electric 1  
 electrica 1  
 electrical 1  
 electrically 47  
 electroically 1  
 electromagnetic 3  
 electron 1  
 electronic 9  
 electronically 10  
 electronicply 1  
 electronics 1  
 eledrically 1  
 element 12  
 elements 26  
 elementvsignal 1  
 elevation 12  
 embodied 1  
 embodiment 13  
 embodiments 13  
 enable 2  
 enables 2  
 energy 5  
 eng 1  
 engineering 1

enhance 2  
entitled 3  
envelope 1  
equa 1  
equals 3  
equation 2  
equations 4  
et 3  
etc 3  
evaluation 1  
example 1  
excitation 2  
excited 4  
exempla 1  
exemplary 10  
expected 1  
experimental 1  
extensively 1  
extra 2  
extremely 1  
fa 1  
fall 1  
fas 1  
fast 7  
feature 2  
features 1  
feed 2  
fft 2  
field 1  
fig 36  
figure 1  
filed 1  
filter 4  
filtering 2  
filters 2  
finally 1  
finder 1  
finding 2  
first 2  
flat 7  
flexible 3  
fm 17  
fodh 2  
fog 1  
for 40  
form 2  
forming 5  
forms 1

fourier 2  
fr 1  
frequency 23  
from 19  
fsintxl 1  
fujii 1  
full 1  
fully 2  
function 7  
fundion 1  
future 1  
gain 1  
gating 1  
generally 1  
generat 1  
generate 3  
generates 1  
generating 2  
generation 2  
generator 9  
generators 2  
genetators 1  
get 6  
ghz 1  
gitzendanner 1  
given 4  
gives 1  
gmund 1  
go 2  
goes 5  
great 1  
greater 6  
greenwood 1  
ground 2  
gtmosar 1  
half 4  
has 6  
have 2  
haykiw 1  
he 1  
height 2  
helical 1  
hendersol 1  
herein 5  
hereinafter 1  
high 16  
hop 1  
horizohtal 1



howells 1  
however 1  
hpa 2  
hpas 6  
http 1  
hundred 1  
hybrid 13  
hybrids 1  
hz 1  
iambda 1  
iarge 1  
iast 1  
identica 1  
identical 9  
ieast 1  
iee 3  
ieee 2  
ieft 1  
iess 1  
iets 1  
if 2  
ihe 1  
iight 1  
iimit 1  
iimited 1  
ilinear 2  
illuminated 2  
illustrate 1  
illustrates 6  
implementation 1  
important 2  
impossibility 1  
improve 1  
improved 1  
improving 1  
in 57  
inadequate 1  
includes 7  
including 1  
incorporated 4  
increased 1  
increasing 1  
incremental 1  
independent 1  
indicate 1  
individually 1  
inexpensive 2  
information 2

input 19  
inside 2  
int 1  
integrators 2  
interest 1  
into 4  
inveder 1  
invention 42  
inventor 1  
inverter 2  
iocal 2  
ionger 1  
iot 1  
iow 2  
iowest 1  
ir 1  
ire 2  
is 73  
isin 1  
issued 1  
it 4  
itphased 1  
its 3  
itude 1  
jamming 3  
januarpfefbruary 1  
january 1  
johnkono 1  
jones 1  
june 1  
kay 1  
keeps 1  
kendell 1  
key 1  
kilometers 1  
known 1  
kummer 1  
langenwalter 1  
last 1  
lb 1  
least 1  
lectrically 1  
led 1  
left 1  
less 1  
let 1  
letting 1  
lewis 1

lf 1  
lhe 1  
ligh 1  
lighting 1  
limit 1  
linear 1  
lity 1  
lloo 1  
lly 1  
ln 2  
lna 4  
lnas 5  
lncorporating 1  
lnst 1  
location 1  
longer 1  
low 1  
lower 1  
lowest 1  
ly 1  
magnitude 3  
main 5  
manager 1  
manufacture 1  
many 4  
march 1  
mass 2  
matched 2  
may 3  
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me 1  
means 6  
measured 1  
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mentioned 1  
meters 1  
method 2  
mhz 2  
michigap 1  
military 1  
missile 1  
missiles 1  
mit 1  
mitting 1  
mixer 10  
mixers 16  
mixes 1  
mixing 2

mixtures 1  
mode 7  
moderate 1  
modern 1  
modification 1  
modulated 4  
modulation 4  
modules 1  
moment 1  
moments 1  
monostatic 1  
more 6  
mosar 1  
most 1  
movement 2  
moving 1  
much 1  
multibeam 4  
multichannel 2  
multifunctional 4  
multifundional 1  
multiplex 2  
multiplexing 1  
multipod 4  
multiport 10  
must 2  
narrow 16  
national 1  
nbs 1  
need 4  
neeown 1  
negative 2  
new 3  
newberg 1  
newtown 1  
next 2  
nicodimus 1  
niformly 1  
nignal 1  
no 10  
nobuo 1  
noise 8  
non 2  
nonuniform 4  
nonuniformly 1  
normalized 3  
not 3  
note 3

novel 2  
november 2  
now 2  
ns 1  
number 3  
nyquist 1  
objects 2  
observe 1  
obtained 1  
obvious 1  
october 1  
of 275  
off 1  
offset 6  
ofthe 1  
om 1  
omega 8  
omegao 3  
omera 1  
omeraat 1  
on 9  
one 25  
only 4  
operate 1  
operation 3  
operational 1  
or 73  
order 9  
org 1  
orwpablication 1  
oscillator 4  
oscillators 2  
other 11  
outpgt 1  
outpus 1  
output 36  
outputs 5  
over 1  
pa 2  
pad 2  
padicularly 1  
page 14  
palmer 1  
paper 2  
parallel 1  
particular 1  
pat 4  
patent 5

patents 1  
 pattern 2  
 patterns 1  
 pdf 1  
 peak 4  
 pedormance 1  
 pedorming 1  
 perform 1  
 performance 3  
 performed 1  
 performnnce 1  
 perpendicular 1  
 phase 33  
 phased 1  
 phenomenon 1  
 phi 1  
 pi 3  
 pig 1  
 planned 1  
 plenty 6  
 plot 2  
 plur 1  
 plurality 39  
 plus 2  
 plvrality 1  
 pod 7  
 pods 3  
 port 21  
 ports 7  
 position 12  
 positioning 1  
 positive 1  
 possibility 1  
 possible 4  
 power 30  
 preferred 1  
 present 30  
 presented 3  
 presvnt 1  
 prior 3  
 pro 1  
 proc 3  
 procedur 1  
 procedure 1  
 proceedings 1  
 processing 10  
 processor 2  
 produce 1

producing 1  
programs 1  
progressive 1  
propag 1  
propagating 2  
proper 1  
propodional 1  
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